ROCKY FLATS PLANT EM RADIOLOGICAL GUIDELINES

Manual No.: Procedure No.: Page: 3-21000-OPS-EMRG
Table of Contents, Rev 8
1 of 2

Effective Date: Organization:

05/26/95 Environmental Management

TABLE OF CONTENTS

	Title	Rev. No.	Effective <u>Date</u>
4-M83-ER-OPS-EMRG-1.0	Environmental Management Radiological Guidelines for Organization and Responsibilities	1	02/09/95
EMRG 1.1	Gama Radiation Surveys	0	12/06/91
EMRG 1.2	Beta RadiationSurveys	0	12/06/91
EMRG 1.3	Posting of Radiation Protection Requirements	0	12/06/91
EMRG 2.1	Personnel Contamination Monitoring	0	12/06/91
EMRG 2.2	Possible Inhalation Exposure	0	12/06/91
EMRG 2.3	Wounds and Skin Contamination	0	12/06/91
•3-P11-ER-OPS-EMRG-3.1	Performance of Surface Contamination Surveys	1	05/26/95
4-B96-ER-OPS-EMRG-3.02	Survey Requirements for Conditional and Unrestricted Use	0	03/30/94
EMRG 3.5	Handling of Contaminated Dosimetry/Security Badges	0	12/06/91
EMRG 6.1	Performance Test and Operational Checks for Ludium Model 12-A, Model 12, and Model 31 Survey Instruments	0	12/06/91
EMRG 6.3	Performance Checking and Operation of the Eberline SAC-4 Alpha-Scintillation Smear Counting Instrumentation	0	12/06/91
EMRG 6.4	Performance Testing and Operation of the Eberline BC-4 Beta Smear Counting Instrumentation	0	12/06/91
EMRG 6.5	Use of the Bicron Frisk-Tech with the A-100 and B-50 Detectors	0	12/06/91

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Manual No.: Procedure No.: 3-21000-OPS-EMRG Table of Contents, Rev 8

Page:

2 of 2

Effective Date: Organization:

05/26/95 Environmental Management

	Title	Rev. No.	Effective <u>Date</u>
EMRG 6.6	Use of the Bicron Fidler (Field Instrument for the Detection of Low-EnergyRadiation)	0	12/06/91
	94-DMR-ERM-0012		01/25/94
4-P12-ER-OPS-EMRG-6.7	Performance Checking and Operation of Ludlum Smear Counting Instruments	0	04/07/95
EMRG 9.1	Respiratory Protection Requirements and Posting	0	12/06/91
EMRG 10.1	Radiological Deficiency Reporting Program	0	12/06/91

Rocky Flats Environmental Technology Site 3-P11-ER-OPS-EMRG-3.1

REVISION 1

PERFORMANCE OF SURFACE CONTAMINATION SURVEYS

APPROVED BY: Manager, M.C. Browssand 5-24-95 Manager, Print Name Date					
DOE RFFO/ER Concurrence on file: Yes No No No					
Environmental Protection Agency Approval Required: Yes No No N/A					
Responsible Organization: Environmental Restoration Program Division Effective Date: 5/26/95					
CONCURRENCE BY THE FOLLOWING DISCIPLINES WILL BE DOCUMENTED IN THE PROCEDURE HISTORY FILE:					
Data Management and Reporting Environmental Operations Management Radiological Engineering					
USE CATEGORY 3					

ORC review not required

The following have been incorporated in this revision: 94–DMR–001668

This procedure supersedes 3–21000–OPS–EMRG–3.1, Revision 0.

Periodic review frequency: 3 years from the effective date

LIST OF EFFECTIVE PAGES

Pages

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TABLE OF CONTENTS

Sec	<u>ction</u>	<u>Page</u>
	TITLE PAGE	1
	TABLE OF CONTENTS	3
1.	PURPOSE	. 4
2.	SCOPE	. 4
3.	OVERVIEW	. 4
4.	PREREQUISITE ACTIONS	. 4
	INSTRUCTIONS	
5.1	General	. 5
5.2	Baseline and Routine Surveys	. 5
6.	RECORDS	. 6
7	REFERENCES	. 6

1. PURPOSE

This procedure provides the requirements for performance, documentation, and review of surface contamination surveys done in conjunction with the Environmental Restoration Program at the Rocky Flats Environmental Technology Site (Rocky Flats).

This procedure implements requirements from the following:

- 1–P73–HSP–18.10, Radioactive Material Transfer and Unrestricted Release of Property and Waste
- DOE Radiological Control Manual
- 10 CFR 835, Occupational Radiation Safety

2. SCOPE

This procedure applies to Rocky Flats employees and subcontractors involved in the preparation, administration, and execution of surface contamination surveys for environmental restoration projects.

This procedure addresses the following topics:

- Compliance with Radiological Operations Instructions (ROI)
- Baseline and Routine Surveys

This revision is a total rewrite and revision bars are omitted.

This revision supersedes 3–21000–OPS–EMRG–3.1, Revision 0.

3. OVERVIEW

This procedure sets out specific instructions to be followed by subcontractors performing environmental restoration work at Rocky Flats. To avoid duplication and ensure timely implementation of future changes to Department of Energy (DOE) directives, the subcontractor is directed to follow the instructions in the ROI substituting the subcontractor's personnel titles for those contained in the ROI. Instructions are provided for baseline and routine surveys of the subcontractor's vehicles and trailer floors on a monthly basis. Subcontractors are authorized to use forms for recording data other than those contained in the ROI where they can show that the information gathered is the information required by the ROI.

4. PREREQUISITE ACTIONS

Health and Safety Specialist (HSS)

- Observe the appropriate Limitations and Precautions, Prerequisites, and Instructions in 4–K62–ROI–03.01, Performance of Surface Contamination Surveys. If questions arise concerning technical instructions and guidelines in the ROI, resolve them with the Environmental Restoration Radiological Engineer (ERRE).
- [2] Brief all personnel involved in the survey that 4–K62–ROI–03.01 refers to performers by unique titles and that the following equivalent titles apply.

Radiological Operations (RO) Supervision

=> Environmental Restoration Radiological Engineer (ERRE)

Radiological Control Technician (RCT)

=> Health and Safety Specialist (HSS)

5. INSTRUCTIONS

5.1 General

HSS

Perform all surface contamination surveys required by 4–K62–ROI–03.01 and in accordance with the instructions contained in 4–K62–ROI–03.01. Where forms are required by the ROI, subcontractors may substitute other forms provided all information required by the ROI is captured on the subcontractor's form.

[1] WHEN a situation occurs that is not covered in 4–K62–ROI–03.01, THEN contact Radiological Engineering for guidance.

Radiological Engineering

[2] WHEN guidance is requested by the subcontractor,
THEN provide appropriate guidance in accordance with professional standards, ROIs,
HSPs, DOE standards, and industry standards.

5.2 Baseline and Routine Surveys

HSS

- [1] Perform smear surveys in accordance with 4–K62–ROI–03.01, for removable contamination on contractor's vehicles and contractor's trailer floors on a monthly basis.
- [2] **IF** contamination is found, **THEN** take action as directed by 4–K62–ROI–03.01.
- [2] Document survey results in accordance with 4–K62–ROI–03.01.
- [3] Document results separately on Radiological Contamination Survey Forms.

Site Safety Officer

[4] File a copy of completed survey forms in a master survey binder kept in each site Health and Safety Office.

6. RECORDS

Management of all records is consistent with 1–77000–RM–001, Records Management Guidance for Records Sources.

Environmental Restoration Program Division Records Source

- [1] Ensure that the original and one copy, as required, of the following quality assurance (QA) records are transmitted to the Environmental Restoration Program Division Project File Center in accordance with 2–G18–ER–ADM–17.01, Records Capture and Transmittal:
 - Survey reports
 - Calibration logs

Submission of record copies to the Environmental Restoration Program Division Project File Center satisfies Administrative Record requirements, as defined in 2–S65–ER–ADM–17.02, Administrative Record Document Identification and Transmittal.

There are no non-QA records generated by this procedure.

7. REFERENCES

- 1–77000–RM–001, Records Management Guidance for Records Sources
- 1-P73-HSF-18.10, Radioactive Material Transfer and Unrestricted Release of Property and Waste
- 2-G18-ER-ADM-17.01, Records Capture and Transmittal
- 2-S65-ER-ADM-17.02, Administrative Record Document Identification and Transmittal
- 3–21000–OPS–EMRG–6.1, Performance Tests and Operational Checks for Ludlum 12–1A and Model 31 Survey Instruments
- 3-21000-OPS-EMRG-6.3, Performance Testing and Operation of the Eberline SAC-4 Alpha-Scintillation Smear Counting Instrumentation
- 4-K62-ROI-03.01, Performance of Surface Contamination Surveys
- 3–21000–OPS–EMRG--6.4, Performance Testing and Operation of the Eberline B–C-4 Beta Smear Counting Instrument
- 3-21000-OPS-EMRG-6.5, Use of Bicron Frisk-Tech with the A-100 and B-50 Detectors
- 4-B96-ER-OPS-EMRG-3.02, Survey Requirements for Conditional and Unrestricted Use
- 10 CFR 835, Occupational Radiation Safety

DOE Radiological Control Manual